

2015

COMPANY PROFILE

TER BRAAK / BEPEX-HUTT / KREUTER

TECHNOLOGY CENTER

NEW DEVELOPMENTS

OUR SERVICES

CONTACT







CEREAL BAR MANUFACTURING





Universal Bar Line GP-DP Application Examples



Categories of Cereal Bars

Structure: Soft, Chewy, Crunchy

Binder: Soft, Chewy, Brittle

Ingredients: Cereals, Nuts, Fruits, Others

Baking: Baked, Non-baked

Enrobing: Natural, Bottom Enrobed,

Fully Enrobed, Decorated

Forming: Rectangular, Shaped

Universal Bar Line GP-DP Application Examples



Universal Bar Line GP-DP Application Examples



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Three layered Granola Bars





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Universal Bar Line GP-DP Application Examples



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Granola Bars with a second layer





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Baked Granola Bars





STEP 1 – The Binder Sugar based binder for Cereal Bars

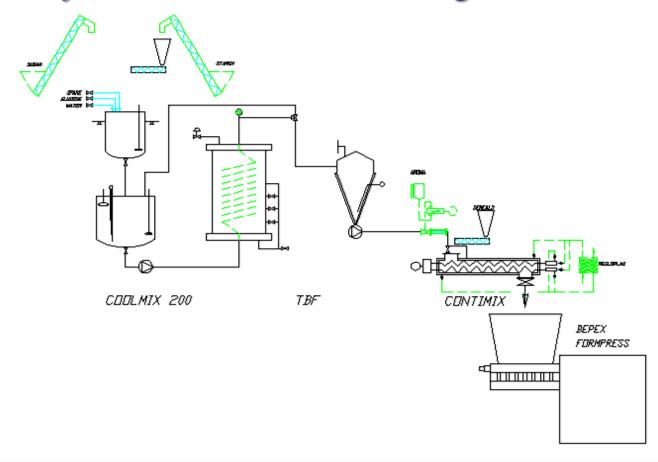
Basic ingredients:

- Water (3-8%)
- Sugar (40-46%)
- High Maltose Glucose 42 DE (40-46%) or
- High Fructose Corn Syrup (42%) same %

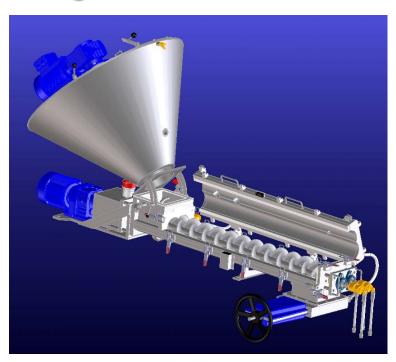
Additional Ingredients:

- Honey
- Molasses
- Starch

STEP 1 – The Binder Single layer Granola Bar with sugar based binder



STEP 2 – The Mixing of Ingredients and Binder with Hosokawa Contimix





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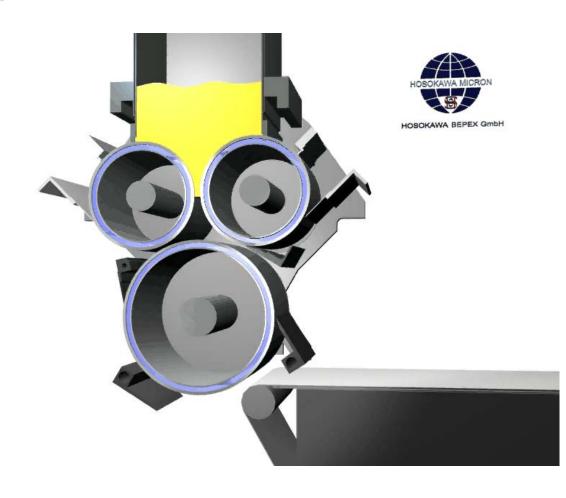
STEP 3 – The Slab Forming Smooth Roller Former Type GP

- Exact Forming of the Product
- Exact Control of Shape and Density
- Very Flexible System
- Top sanitary lay out Adjustable slab thickness
- Modular Assembly Technique (MAT)
- Hopper, housing and side walls, rollers and chute are all doublewalled and can be tempered independently from each other



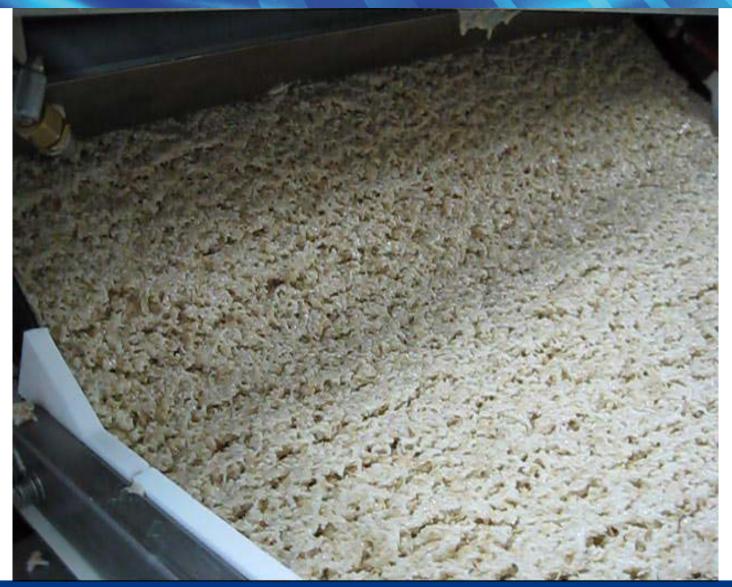
Working principle of the GP former

- Suited for all pressure sensitive masses or aerated masses
- The forming system is working without any pressure according to the dragging principle
- The GP former does not generate any change on the structure of the mass to be processed.
- A gentle forming is guaranteed even for high sponge products by keeping their density



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Compression Roller Type EGW 350 in combination with a Contour Roller



STEP 4 – The Slab Cooling Cooling Technology



- Air / Air tunnel type UKK
- Water / Air tunnel type BKK
- High capacity tunnel type HKK
- Chilled tables

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STEP 4 – The Slab Cooling Cooling Tunnel hkk



- High air velocities up to 10 m/s
- For intense and quick cooling of various products
- Strong Design Ensures Energy Savings
- Min. 40 mm Insulation
- Slider bed made of stainless steel
- Convection Cooling
- Direct drive execution
- Accurate belt tracking system aided by optical photo eyes

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STEP 5 – The Cutting

SG Strand Slitter

- Highest hygienic standard
- Circular knife:
 - can be heated an cooled with water
 - easily and quickly be taken out of the machine
- Modular Assembly Techniques (MAT)
- Very flexible system
- Circular knives made of special hardened knife steel, mirror polished



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STEP 5 – The Cutting FA - EB - Fanning Belt

- Fanning and belt in movable design
- All parts in contact with the product are made of food stuff approved material
- No problems with unequal belt length
- Highest hygienic standard design
- Easy cleaning



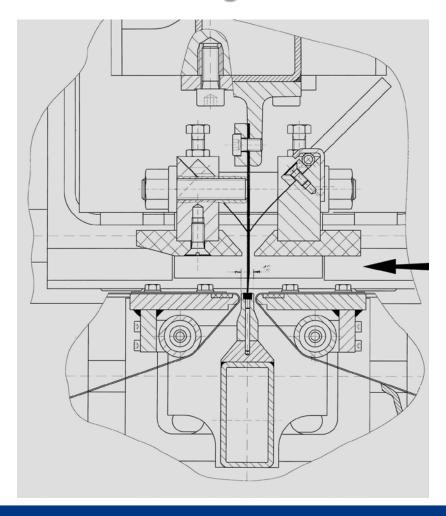


STEP 5 – The Cutting MS Guillotine Cutter

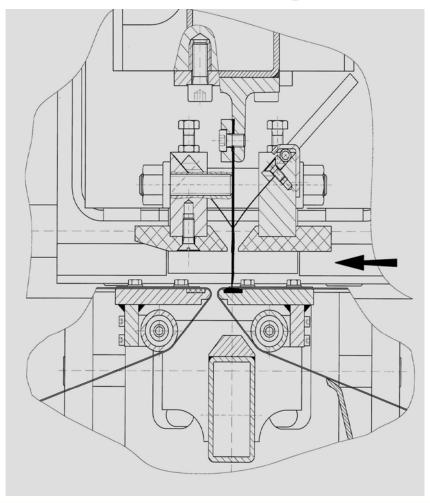
- Knife drive by top modern, advanced electronically controlled servo motors
- Programmable knife movement, adjusted to the product
- Modular Assembly Techniques (MAT)
- Cutting of the product optionally: plastic cutting ledge, feeding belt or transfer belt
- Highest hygienic standard
- Transversal knife in special design can be cooled or heated
- Ultrasonic cutting available



Standard Features: Cutting on Plastic Cutting Ledge



Standard Features: Cutting on Feeding Belt



MS 3000 EI -New Cutting Technology

- Knife drive by top modern, advanced electronically controlled servo motors,
- Programmable knife movement, adjusted to the product
- Modular Assembly Techniques (MAT)
- Cutting of the product optionally: plastic cutting ledge, feeding belt or transfer belt
- Highest hygienic standard of design
- 3m wide working width



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STEP 6 – The Enrobing



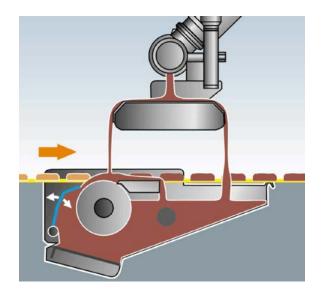
Chocoat Premium Enrober

- Exact coating weight control over the entire working width
- Easy access to all parts for cleaning and maintenance
- Constant degree of precrystallization of the chocolate mass in the coating machine
- Designed for long term continuous production
- PLC controlled operation

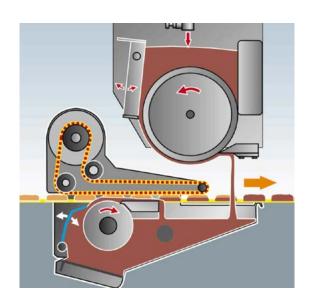


Enrober

Coating Station



Curtain Roller



Enrober

Blower Station



View into Enrober from Discharge



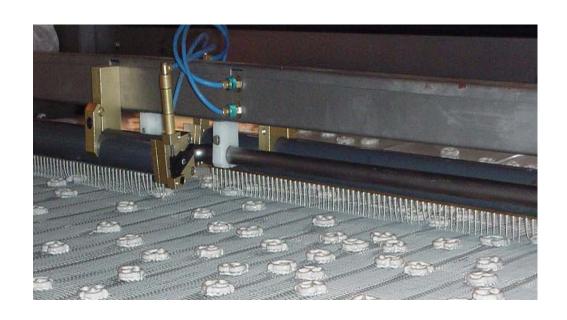
Enrobing Technology

- Chocoat Premium
- Chocoat Eco
- Wash down enrober
- Two colour enrober
- Ice cream enrober
- Lab units
- Bottomer



Accessories for Enrobing Lines

- Decorators
- Sprinklers
- 90° / 180° turn tables
- Tanks
- Jacketed pipe-work
- Derober



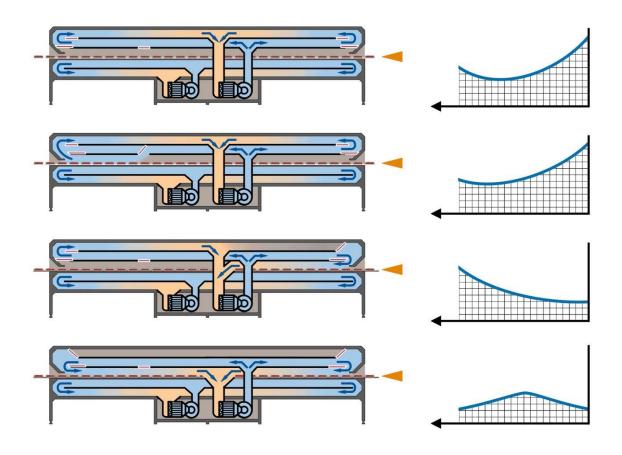


STEP 7 – The Chocolate Cooling Universal Cooling Tunnel Type ukk



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Universal Cooling Tunnel Type ukk





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Thank you!



